

Geometric Etude #1

Suite: Geometric Etudes

by Arya Akhavan (December 2012)

Angles for R.I. = 1.610

43 + 6 girdles = 49 facets

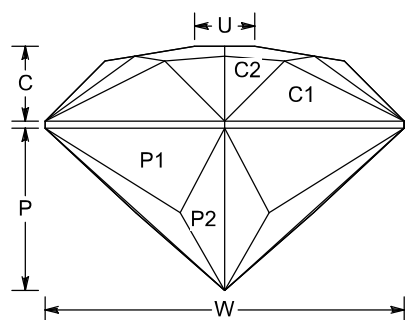
6-fold, mirror-image symmetry

96 index

$L/W = 1.155$ $T/W = 0.192$ $U/W = 0.167$

$P/W = 0.450$ $C/W = 0.208$

$Vol./W^3 = 0.253$



PAVILION

P1	43.00°	08-24-40-56-72-88	Cut to centerpoint.
G1	90.00°	08-24-40-56-72-88	Set stone size.
P2	41.00°	07-09-23-25-39-41-55-57-71-73-87-89	Meet P1, G1

CROWN

C1	45.00°	08-24-40-56-72-88	Set girdle width.
C2	32.22°	02-14-18-30-34-46-50-62-66-78-82-94	Meet G1, C1
C3	9.34°	08-24-40-56-72-88	Meet C1, C2
T	0.00°	Table	Cut to 1/3 of C3 edge length

This is the first in a series of what amount to experiments in geometry, written on gems. In this case, I tried to write a design where all the corners were connected by unbroken lines. The table eliminates a window. I prefer this in blue topaz, but works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes.

Suggested size = 6-10 mm

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